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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/743,556	12/22/2003	Jeffrey Dean Lindsay	KCX-767 (19738)	5072
22827 DORITY & MA	7590 05/02/2007 ANNING, P.A.		EXAMINER	
POST OFFICE BOX 1449 GREENVILLE, SC 29602-1449		•	BRITTAIN, JAMES R	
			ART UNIT	PAPER NUMBER
			3677	
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			05/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No. Applicant(s)						
Office Action Commence	10/743,556	LINDSAY ET AL.					
Office Action Summary	Examiner	Art Unit					
	James R. Brittain	3677					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>06 Fe</u>	ebruary 2007.						
<u> </u>	action is non-final.						
3) Since this application is in condition for allowar		secution as to the merits is					
closed in accordance with the practice under E							
Disposition of Claims							
4) Claim(s) <u>1-40 and 42-53</u> is/are pending in the a	application						
4a) Of the above claim(s) <u>13,17,19,20,29,33,35</u>		rom consideration					
5) Claim(s) is/are allowed.	, oo ana no oo loraro wallalawii i	om consideration.					
6) Claim(s) <u>1-5,7-12,14,21-28,30,37-40 and 42-44</u>	1 is/are rejected						
7) Claim(s) <u>6,15,16,18,31,32 and 34</u> is/are object							
8) Claim(s) are subject to restriction and/or							
Application Papers	olosion roquiromoni.						
<u> </u>							
9) The specification is objected to by the Examine							
	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the	•	, ,					
Replacement drawing sheet(s) including the correcti			•				
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
 Certified copies of the priority documents 	s have been received.						
Certified copies of the priority documents	have been received in Applicati	on No					
Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage					
application from the International Bureau	(PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	of the certified copies not receive	d.					
		·					
Attachment(s)							
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
P) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite					
B) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application					

DETAILED ACTION

Response to Arguments

Applicant's arguments, see the appeal brief page 5, last paragraph through page 12, ¶4, filed February 6, 2007, with respect to the rejection(s) of claim(s) 1-5, 7-12, 14, 21-28, 30, 37 and 38-44 under 35 U.S.C. 103 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Neeb et al. (US 2002/0169435).

Response to Amendment

The finality of the action mailed May 17, 2006 is withdrawn and the amendment received February 6, 2007 has been entered. The requirement to provide a new brief set forth in the communication of April 9, 2007 is withdrawn and obviated as those grounds of rejection discussed therein are no longer in force.

Election/Restrictions

Applicant's election without traverse of the species of Group Ia, the layer of Group I and Geometry I in the reply filed on August 12, 2005 is acknowledged.

Claims 13, 17, 19, 20, 29, 33, 35, 36 and 45-53 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on August 12, 2005. Claim 19 has also been withdrawn as it is drawn to the dome geometry, which wasn't elected.

Claim Rejections - 35 USC § 102

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5, 7-12, 14, 21-28, 30, 37-39 and 42 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Neeb et al (US 2002/0169435).

Neeb et al. (figures 16A - 16C, 19 and 20; [0074], [0075]) teaches formation of a bistable hook tape with a plurality of curvatures set in the tape as shown in figure 20. These curvatures result in a web having a plurality of outward convex configurations with radius, r. The bi-stable configuration moves from a convex configuration for initial engagement to a concave configuration as indicated in [0053], [0006] - [0012]. The concave configuration is desired so as to effect secure engagement. Figure 20 discloses the bi-stable hook web with a plurality of hook regions that can move from the shown convex position to the concave position thereby defining the hooks in the cavities as well. As these portions resiliently snap back and forth, the portions stretch in a longitudinal direction. Both cross and longitudinal curvature is achieved. The fastener can be used on garments (figures 13, 14, 17; [0046], [0052], [0064]). The fastener can further have a partial spherical or ellipsoidal shape and therefor has a dome shape [0061].

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 43 and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Neeb et al (US 2002/0169435).

Neeb et al. (figures 1, 2, 4, 5, 13, 14, 16A - 16C, 19 and 20; [0074], [0075]) teaches formation of a bi-stable hook tape with a plurality of curvatures set in the tape as shown in figure 20. These curvatures result in a web having a plurality of outward convex configurations with radius, r. The bi-stable configuration moves from a convex configuration for initial engagement to a concave configuration as indicated in [0053], [0006] - [0012]. The concave configuration is desired so as to effect secure engagement. Both cross and longitudinal curvature is achieved. The fastener can be used on garments (figures 13, 14, 17; [0046], [0052], [0064]). The fastener can further have a partial spherical or ellipsoidal shape and therefor has a dome shape [0061]. The amount of energy needed to "snap" the resilient hook backing into a concave or convex shape was already considered by Neeb et al. as a variable to be determined and they chose the following criteria:

[0060] A reasonable amount of energy is required to "snap" the hook backing 26 into a convex 36 or a concave position 32. The amount of energy required should be small enough to enable a typical user to overcome the internal stabilizing forces of the backing 26 without over-exertion, yet large enough to avoid unintentional form transition due to forces applied to the fastener during normal use, such as the forces exerted on a diaper fastener, for example, during infant wear. Preferably, the force required to toggle the hook backing 26 should be of similar magnitude to the force required to toggle a common light switch.

The difference is that the amount of force isn't stated as being 50 grams or 400 grams. However, given Neeb et al. discussing a criteria for adjusting the force level to use the fastener on a garment such as a diaper, it would have been obvious to modify the force level to other ranges or levels depending on the use of the fastener as Neeb et al. discusses the use of the

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fastener on many different items and therefor renders obvious the particular choice of 50 grams or 400 grams.

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Claim 40 is rejected under 35 U.S.C. 103(a) as being unpatentable over Neeb et al (US 2002/0169435) in view of Lord et al. (US 6142986).

Neeb et al. (figures 1, 2, 4, 5, 13, 14, 16A - 16C, 19 and 20; [0074], [0075]) teaches formation of a bi-stable hook tape with a plurality of curvatures set in the tape as shown in figure 20. These curvatures result in a web having a plurality of outward convex configurations with radius, r. The bi-stable configuration moves from a convex configuration for initial engagement to a concave configuration as indicated in [0053], [0006] - [0012]. The concave configuration is desired so as to effect secure engagement. Both cross and longitudinal curvature is achieved. The fastener can be used on garments (figures 13, 14, 17; [0046], [0052], [0064]). The difference is that the body portion is not stated as having a stretch member extending therefrom comprised of a neck bonded laminate with a tab member extending from the stretch member comprised of a spunbond/meltblown/spunbond with the fastening member secured thereto. However, Lord et al. (figures 1-4) wherein the ear region 38 is an elastomerically stretchable neck-bonded-laminate (col. 12, line 54 - col. 13, line 8) and the tab can be a spunbondmeltblown-spunbond fabric (col. 15, lines 7-12). These materials provide desirable properties in garments. It would have been obvious to modify the device of Neeb et al. to utilize such a construction as Lord et al. suggests that it is desirable to use such constructions in garments.

Allowable Subject Matter

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Claims 6, 15, 16, 18, 31, 32 and 34 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The patents of Fischer (US 4794028) and Kennedy et al. (US 5260015) teach pertinent hook fastener structure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James R. Brittain whose telephone number is (571) 272-7065. The examiner can normally be reached on M-F 5:30-2:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, J. J. Swann can be reached on (571) 272-7075. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

James R. Brittain Primary Examiner Art Unit 3677

JRB